CLAIMS

1. An ink composition, comprising:

about 5 to about 50 percent by weight of at least one optically variable pigment; at least one binder; and water, wherein:

said at least one optically variable pigment and said at least one binder are combined with said water to form a water-based ink; said water-based ink is formulated to enable said water-based ink to be used in flexographic printing processes; and said water-based ink has a viewing angle dependent color shift between at least a first color and a second color.

- 2. The ink composition as claimed in claim 1 wherein said at least one optically variable pigment comprises about 10 to about 20 percent by weight of said water-based ink.
- 3. The ink composition as claimed in claim 1 wherein said optically variable pigment comprises a mica substrate, at least one titanium dioxide layer, and at least one inorganic coloring layer.
- 4. The ink composition as claimed in claim 1 wherein said optically variable pigment comprises a Dynacolor® pigment.
- 5. The ink composition as claimed in claim 4 wherein said optically variable pigment comprises Mearlin Dynacolor BY-B.
- 6. The ink composition at claimed in claim 4 wherein said optically variable pigment comprises Mearlin Dynacolor GY.
- 7. The ink composition as claimed in claim 4 wherein said optically variable pigment comprises Mearlin Hi-Lite Super Gold.

- 8. The ink composition as claimed in claim 1 wherein said water comprises about 70 to about 80 percent by weight of said water-based ink.
- 9. The ink composition as claimed in claim 1 wherein said optically variable pigment comprises about 20 by weight of said water-based ink.
- 10. The ink composition as claimed in claim 1 wherein said at least one binder comprises at least one water soluble polymer.
- 11. The ink composition as claimed in claim 10 wherein said at least one binder further comprises polyvinyl alcohol.
- 12. The ink composition as claimed in claim 10 wherein said water soluble polymer comprises polyvinyl pyrollidone.
- 13. The ink composition as claimed in claim 10 wherein said water soluble polymer comprises carboxymethyl cellulose.
- 14. The ink composition as claimed in claim 1 wherein said binder comprises at least one latex polymer.
- 15. The ink composition as claimed in claim 14 wherein said binder further comprises polyvinyl alcohol.
- 16. The ink composition as claimed in claim 1 further comprising at least one fluorescent dye.
- 17. A method of providing security information, comprising: providing a water-based ink comprising:

about 5 to about 50 percent by weight of at least one optically variable pigment;

at least one binder; and

water;

printing at least a portion of a substrate with said water-based ink utilizing flexographic printing, wherein:

said portion of said substrate printed with said water-based ink displays a viewing angle dependent color shift between at least a first color and a second color:

said portion of said substrate printed with said water-based ink comprises security information; and

said security information is not reproducible via photocopying.

- 18. The method as claimed in claim 17 wherein said at least one optically variable pigment comprises about 10 to about 20 percent by weight of said water-based ink.
- 19. The method as claimed in claim 17 wherein said substrate comprises a paper substrate.
- 20. The method as claimed in claim 17 wherein said substrate comprises a plastic substrate.
- 21. The method as claimed in claim 17 wherein said substrate comprises a security document.
- 22. The method as claimed in claim 21 wherein said security document is selected from a check, a money order, a certificate, an auto title, a bearer bond, a stamp, a postal order, and a lottery tickets.
- 23. The method as claimed in claim 21 wherein said security document comprises a check.

- 24. The method as claimed in claim 17 further comprising printing said substrate utilizing laser printing subsequent to printing at least a portion of said substrate with said water-based ink wherein said security information remains intact during said laser printing.
- 25. The method as claimed in claim 17 wherein said water-based ink is printed on said substrate such that said substrate is spot-coated.
- 26. The method as claimed in claim 17 wherein said water-based ink is printed on said substrate such that said substrate is flood coated.
- 27. The method as claimed in claim 17 wherein said water-based ink is printed on said substrate such that at least one indicia is formed thereon.
- 28. A method of providing security information, comprising:

providing a water-based ink comprising:

about 10 to about 20 percent by weight of at least one optically variable pigment, wherein said at least one optically variable pigment comprises a Dynacolor® pigment;

at least one binder; and

about 70 to about 80 percent by weight water;

printing at least a portion of a substrate with said water-based ink utilizing flexographic printing, wherein:

said portion of said substrate printed with said water-based ink displays a viewing angle dependent color shift between at least a first color and a second color;

said portion of said substrate printed with said water-based ink comprises security information; and

said security information is not reproducible via a photocopier.

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29. A document comprising a document substrate wherein:

at least a portion of said document substrate is printed with a water-based ink utilizing flexographic printing;

said water-based ink comprises about 5 to about 50 percent by weight of at least one optically variable pigment, at least one binder, and water;

said portion of said document substrate printed with said water-based ink displays a viewing angle dependent color shift between at least a first color and a second color;

said portion of said document substrate printed with said water-based ink comprises security information; and

said security information is not reproducible via a photocopier.